

The Surrey Amateur Radio Club *Communicator*



Score - 1,339 Points

Band	QSOs	Pts
3.5	34	62
3.5	115	100
7	283	472
7	121	95
14	214	330
14	218	176
21	61	100
21	5	4
Total	1051	1339

September 2016



At The Last Meeting...

SURREY AMATEUR RADIO CLUB

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At The June 8, 2016 Annual General Meeting...

The 2015/2016 Annual General Meeting of the Surrey Amateur Radio Club (held at the Fire Service Central Training Facility on 64thAve, Surrey) was called to order at 7:12 pm on June 8, 2016 by President, Stan Williams VA7NF. 31 members were in attendance.

Welcome

Stan welcomed the group to the annual general meeting and confirmed that a quorum of members was in attendance.

A motion to approve the agenda was made, seconded and carried.

A motion to approve the 2015 AGM minutes was made, seconded and carried.

Presentation of Annual Financial Statements

Scott Hawrelak VE7HA presented the Audited financial statements including: Income Statement, Balance Sheet and General Ledger. Scott responded to several questions from members regarding the financial statement. Scott informed the group that purchase of MS Excel may be needed before September as the auditor had some issues opening the documents with the Open Office application. He reminded everyone that financial statements are always available for review at each meeting. Scott's motion to approve the financial statements was seconded by Al Peterson VA7ALZ, and the motion carried.

Bylaw Amendments

Stan Williams presented proposed bylaw changes to the membership, as previously outlined in the Communicator:

After discussion, a motion to accept the proposed changes was made by Geoff Higginson VA7HIG, seconded by Jay Melvin VE7KC and the motion carried.

Announcements

New member, Bruce Elrick VA7CBE, thanked those who prepared and taught the basic ham class. Also attending was another new member Konstantin Kropivny VA7FFT who passed his exam last August and was attending for the first time.

Repeater

Questions about linking of the 220 repeater were tabled for later discussion.

Club Net

A discussion ensued regarding adequacy of coverage of the repeater from Bellingham and South Surrey.

Membership Committee

Membership as of the date of the AGM is 100 but 3 ham class members have not yet confirmed their status.

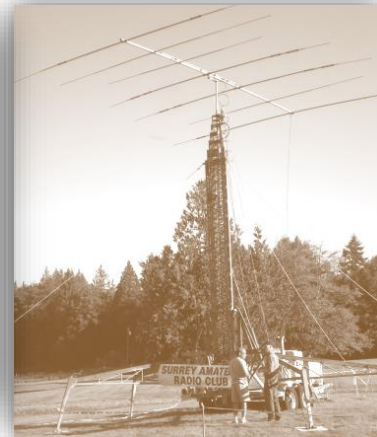
Training Facility

A "move-in" work party was held on May 15th followed by tower installation on the May long weekend. Photos and details can be found in the June Communicator. Next steps recommended were to setup 40 and 80 meter wire antennas in the trees. An application for a Gaming grant requesting provision of equipment is to be submitted by the deadline of August 31st.

Ham Classes

John VE7TI is tentatively planning another basic ham radio course to commence in September with format similar to the last one.





Field Day

Extensive discussion took place regarding field day planning, particularly meals. An operator sign-up list was passed around.

QSL Manager

QSL Manager, Heinz Buhrig VA7AQ, reported that 13,000 contacts from the last 5 years are now in LOTW. Approx 200 SARC QSL cards remain in our inventory. Heinz reported that income received approximately balances expenditures for postage.

Election of Directors

Stan VA7NF expressed thanks to Directors Brett Garrett VE7GM, John Brodie VA7XB and Al Petersen VA7ALZ who completed their 2-year terms. This year, 5 rather

than 4 Director positions are to be filled due to a premature resignation at last year's AGM; therefore 1 of the 5 positions would be for a 1 year term. The 4 Directors previously agreeing to stand, and Sheldon Ward nominated from the floor, were elected by acclamation:

- Stan Williams VA7NF
- Jeremy Morse VE7TMY
- Anton James VE7SSD (1 year term)
- Bill Gipps VE7XS
- Sheldon Ward VA7XNL

The meeting was adjourned at 9:06pm

~ Minutes prepared by
Jeremy Morse VE7TMY

The **SARC Communicator** is published monthly except July and August for members of the Surrey Amateur Radio Club.

To subscribe, unsubscribe or change your address for e-mail delivery of this newsletter, notify **SARCcommunicator@outlook.com**

Non-members living in the Greater Vancouver area may receive one trial issue.

Beyond our membership area, annual Communicator subscriptions are available for a \$5 donation towards our Field Day fund.

SARC maintains a website at **www.ve7sar.net** that includes club history, meetings, news, photos and other information.

Kalmar Koffee Klatch Reminder



The SARC Weekly Koffee Klatch is on Saturday at the Kalmar Restaurant at 80th and King George Hwy in Surrey at 9:00 am. Bring your significant other, bring your family, see old friends and have fun.

On The Cover...

It was 'Thumbs-Up' at SARC Field Day 2016. This year it was held at our new Surrey Amateur Radio Operations and Training Centre (SAROTC) and it provided an opportunity for both experienced and novice hams to have a turn at the mic.

Pictured is your Editor John VE7TI and new SARC Vice-President Anton VE7SSD at the conclusion of the exercise. Pictured below left is new ham Cameron Soo VA7ROI, age 12, having just made his first HF contest contact. Look for Cam's Radio-Active profile on page 7. More on Field Day starting on page 4.



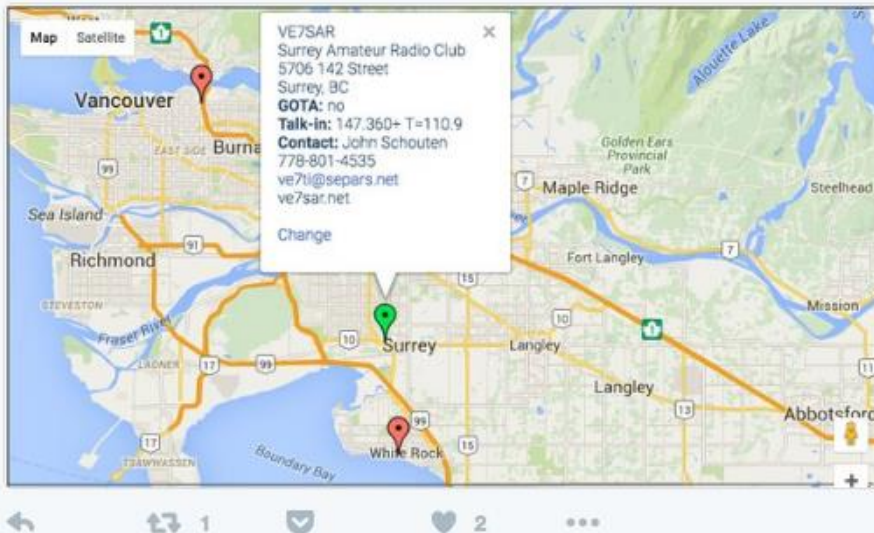
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Field Day 2016



Surrey Amateur Radio @VE7SAR · May 30

We are on the ARRL Field Day Locator
arrl.org/field-day-locator



Though it was 'last-minute' planning, we managed to pull off a successful Field Day. This abbreviated planning is unusual for SARC but the move to our new Amateur Radio Operations and Training Centre enabled us to skip the tasks setting up in an outdoor location and all the manual labour associated with it.

The radio room became a bit crowded at times as several members and visitors came by to have a look at



Although propagation was not ideal, we did well given our quick set-up. The CW operators boosted our score as every contact is worth 2 points versus 1 point for phone.





Top right: MP Sukh Dhaliwal paid us a visit and is shown here with recent SARC Basic Course graduate Sammi Halliday VA7HBE.

Top and left :The ladies looked after us well and we had an excellent dinner in our conference area.

Left: No problem filling a plate as there was lots of food... and dessert! Ralph and Nel Wrotniak roasting corn.



Below left: Operations continued through the night finishing 24 hours at 11am Sunday morning. The bonus? No extensive take-down and clean-up and the gear was left for the Canada Day contest a few days later.

Below: We had issues connecting with BC-WARN for our Internet connectivity despite the high tech sighting device.



September 2016

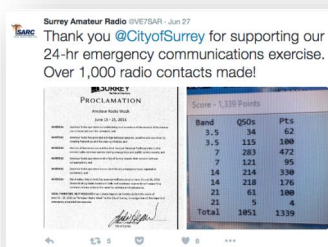
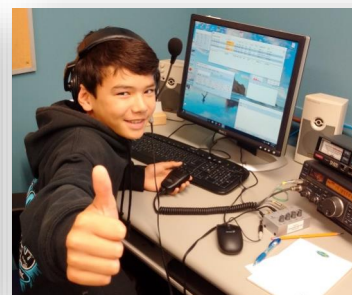


Top L>R: Jeremy checks out SARC history at our Field Day information display.

New club member (and new ham—95% on the exam), 12-year old Cameron Soo VA7ROI came out to operate in his first Field Day. After a brief demo he took over unassisted and made an impressive showing.



Right: Ralph, Nell and Kapila at the mic.



Above: We made certain The outside world knew what we were up to by utilizing social media.

I'm pleased to be able to report that Field Day 2016 has come and gone and, in the opinion of the organizing crew went very well, given the unusually short preparation time. A total of 17 operators took part, some for their first time on HF and all made contacts, adding to our score. With the focus not on attaining a top score, and even without some of our 'big guns' operating for extended periods, and with the participation of several 'newbies', we made a total of 1,051 contacts, quite a feat given the less than ideal HF propagation conditions, the short time we have had possession of our new operating facility and the abbreviated FD planning period. Based on 2015 scores, we would come in no lower than fourth overall in our category, and based on contacts made, we'd finish in the top three. Compared to 2014 results we would be second, and in 2013 would be first, so keep your fingers crossed.

It was a good test of the site's suitability and we found it to be a good location for radio (and a great location for the social and comfort aspects of the event). We had plenty of space, although the radio room was quite crowded at times on Saturday with the 3 operating positions, support crew and spectators. It was an absolute pleasure not to have to engage in a day of setting up tents, facilities, etc. on-site on Friday as we would normally do on Field Day weekend, but an even greater pleasure not having to tear down on Sunday after the final contact was made and we were all tired from lack of sleep. The site holds a lot of promise going forward to our goal of a fully equipped operations and training centre for our members.

Lots of club members came by to have a look, and we received visits from the Deputy Fire Chief, the RCMP, MLA Marvin Hunt and the local Member of Parliament, Sukh Dhaliwal. It will take some time to sort out our final score as we have to add our bonus points, and of course it will be in the fall when we learn how we placed in North America but our official entry documentation has been submitted. From the standpoint of the site, we have found the experience valuable and will be implementing some improvements to our initial plans to make it more efficient.

The first thank you goes to the City of Surrey for their support of Amateur Radio. Nothing like Field Day comes off successfully from the effort of less than a team, so finally, a BIG thank you to all of you who came out to support the team and especially to all those who assisted in preparing and implementing this year's effort.

You can sample more of the FD weekend activity at: <http://tinyurl.com/SARC-FD16>

~ John Schouten VE7TI
2016 SARC Field Day Coordinator



Radio-Active

Geoff Higginson VA7HIG

Profiles of SARC Members

A Family "On Air"

Father and Son Larry and Cam Soo, VA7SOO and VA7ROI share their air time together through S.A.R.C.'s repeater. Monitoring his signal through his dad's Icom 2200H, set-up with power supply and mag mount at home, Cam says his Baofeng UV-5R sounds a little hollow with his stock duckie but he still gets through.

Dad Larry started his Ham career around 2006 when he and other members of his BC4X4.com recreational four wheelers moved into Amateur VHF as the "go to" for communication in the bush. With more power and the higher frequency, CB radio was fading into the sunset with four wheelers as more and more enthusiasts followed suit and became certified as amateur radio operators. His first purchase after getting his license was an Icom 2200H for the Jeep and an Icom T2H for handheld use. After a few more years, he sold BC4x4.com and got out of four wheeling but he held onto his Icoms and purchased a Wouxon vhf/uhf hand held as well.

S.A.R.C. member Cam is almost 13 years old and his foray into amateur radio came for a different reason than his dad. He and a friend from school became interested in "prepping" for emergencies and natural disasters. For Cam it was a natural development to include ham radio in his prepping activities thanks to his dad's example, support and encouragement.

He and his friend practiced their prepping by camping and building shelters on the beach and even "test ate" some (expired) emergency food bars from an emergency kit, pronouncing them to be very dry and chalky, but apparently acceptable in a pinch. His friends are interested in amateur radio as well but don't want to spend the time.

When Cam first got his Baofeng, dad Larry says, "When we go camping, he's old enough that he can go off exploring on his own or

with his friends. Having a VHF makes it easy to stay in touch and also easy to call him back for dinner... or to do the dishes. He also loves scanning frequencies while we drive."

Self-studying and completing four to five on-line auto generated tests per week Cam successfully passed the Basic Exam receiving his Basic with Honours Certification. From the practise tests he knew which items he would have difficulty with and this proved helpful in his quest. Larry helped Cam along the way with the math, noting that learning the math was difficult from the study guide, but once Cam learned the formulas, it became easy. "The study guide is ok, but a class would have been better. He would have learned more." Larry also said that with experience Cam will have deeper learning in the subjects on the exam.

Larry's interest in amateur radio has rebooted in another area of his life. As a young man growing up in Princeton, B.C., Larry's father was an avid hunter. Recently Larry has taken up this pastime as well. This gives him another venue to continue his participation in amateur radio. Larry mentioned that his son's interest in prepping got him motivated to build an emergency backpack for himself to keep at work, and to equip it with his Icom T2H and a few sets of AA batteries.

Cam shares his home with Mom Sue, Sister Robyn, Dad Larry of course, and talkative dog Daisy. Cam is looking forward to his first year at a local High School this fall.

~ Geoff VA7HIG



**Cameron Soo
VA7ROI**



September 2016



Club Station News

John Brodie VA7XB

A Work Party

...over the Fall and Winter we expect to make major strides towards our goal of having a fully operating and functional Operations & Training Centre



It's been a busy summer at the Operations & Training Centre (OTC). While we are still far from having 3 HF stations plus VHF/UHF up-to-standard, a few members have actually been using what we have to participate in contests since Field Day.

We are grateful to have quite a bit of donated gear that has enabled us to get things up and running, however there have been many challenges including a lack of tuners, mismatched mics and other accessories. Critical cables were not immediately available for some of the radios which meant that interfacing of radios with computers and software has been difficult or impossible. These are all challenges that can be overcome with time and expenditure of club funds, but it the meantime it is "make do" with what we have. Despite these limitations we were successful in having several stations ready for Field Day and made over 1000 contacts, which is a significant accomplishment by any standard.

Erection of a wire antenna for 80 and 40m has been difficult as the trees are not ideally located and too close together. Shortly after Field Day our temporary 80-40 failed and it has been taken down and replaced with a 40m dipole. Finding a permanent solution is currently a high priority while the good weather is in our favour.

Another priority: So far we have been without Internet and a connection to BC Warn has not materialized. However, all indications are that we will get there soon.

Here's a list of the major accomplishments during the 2 months following Field Day:

- Coax cables have been re-routed from the exterior window entry to an inverted U installed on the roof, through the upper floor and into the basement. This has improved security of the cables from theft and made the installation tidier. Eventually our intention is to replace the coax with a double-shielded type for improved shielding.
- The yellow tower and TH7 beam are now equipped with donated rotator and controller. However, we need to extend the also-donated 8-conductor cable so that the controller can be relocated to the radio room.
- A purchased Comet CX-333 tri-band VHF/UHF antenna has been mounted above the beam and rotator, and connected to the VHF radio.



- A grounding panel has been purchased, equipped with surge protectors, connected to an earth ground and mounted on the roof to receive all coax connectors from antennas. The grounding system provides direct earth ground for the tower, the coax and the radio room equipment.
- An Off-Centre Fed (OCF) dipole for 80-10 m (but not 15 m) has been purchased and is ready for erection once access to the critical tree(s) can be gained.
- An application for a Community Gaming Grant has been prepared and submitted to Victoria, to fund the acquisition of top-end gear for the OTC. A decision on the application is not expected until the end of November.
- A significant source of HF noise has been identified and suppression applied.
- Our “office” has been relocated to another room, to get around the “mouldy” smell in the former location.
- Additional surplus gear has come our way over the summer, and the Executive is working on making those items that cannot be used in the radio room available to members by cash donation or bid.

So there is much work yet to be done, but over the Fall and Winter we expect to make major strides towards our goal of having a fully operating and functional Operations & Training Centre.

~John VA7XB



For Sale:

I am reducing my Amateur Radio inventory...

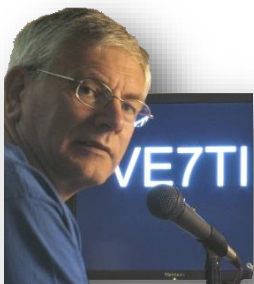
Kenwood TS-450S The Kenwood TS-450S is a formidable HF transceiver covering 160 through 10 meters including the WARC bands with 100 watts input (40W AM). The TS-450S has many advanced features such as built-in antenna tuner, keypad entry, VOX, 100 memories, XIT, RIT, Notch, IF Shift, Squelch and digital meter. Requires 13.8 VDC at 20.5 Amps. Fully compatible with Ham Radio Deluxe, N1MM and digital modes with a dedicated data port. Built-in filters, matching speaker and a MC-43S hand mic included. This is a great beginner radio for HF. In original box with manual \$525 transceiver only or \$590 including a new 25A Astron power supply.

Icom IC-7000 The Icom IC-7000 is an all-mode HF/VHF/UHF mobile transceiver. The 7000 employs two Digital Signal Processing chips! You can select sharp or soft filter shape. And variable twin PBT allows you to either narrow the IF passband, or shift the entire passband to eliminate QRM. All the controls are intuitive to use.

The 2.5 inch (diagonal) TFT color display presents numbers and indicators in bright, concentrated colors for easy recognition (the display can be shown on an external monitor). You can choose from three background colors and two font styles. Not only does this display provide radio status, but it also supports a two-mode band scope. In the Center Mode the scope is centered on the receiving frequency. In the Fixed Mode the scope sweeps a fixed range. This is a great transceiver and easy to use for portable and satellite operation. [We talked to the ISS on it at Field Day](#). Comes with the removable faceplate and separation cable (\$60 option), digital modes interface (for PSK-31 etc.) and a data cable for Ham Radio Deluxe or N1MM connectivity. In original box with manuals, all for \$1050

Both transceivers are clean, in excellent condition and problem free. Contact John [VE7TI @ outlook.com](mailto:VE7TI@outlook.com)

September 2016



Back to Basics

John Schouten VE7TI

From The Basic Question Bank

B-005-008-006

The unit "decibel" is used to indicate:

- A. an oscilloscope wave form
- B. certain radio waves
- C. a single side band signal
- D. a mathematical ratio

If you hold any class of amateur radio license, you've read and studied about the decibel. However you've come to grips with the term "decibel" or managed to choose the correct answer when asked about it on an exam, do you really understand it? Don't be ashamed to say "no". You're not alone in doing so! Without getting too involved in mathematics, let's talk about the "decibel" in easy to understand language.

The decibel is simply one tenth of a bel (deci means ten). The bel is so named in honor of its "inventor", Alexander Graham Bell. Bell wanted a way to measure changes in loudness, in relative terms rather than specific ones. In other words, in the early days of telephony, Bell wanted a simple way to measure the relative gain or loss of sound level. Thus, the bel as a unit of measurement of gain or loss of volume, was born.

So for Alexander Graham Bell, the bel as well as the decibel is **simply a ratio** of change in volume, either up or down. Since the decibel measures a more minute change in power, intensity or volume than the bel, we'll concentrate on the decibel more closely than the bel in this series of articles.

What's the difference between a 5 watt transmitted signal and a 500 watt one? The answer is that 500 watts is 100 times 5 watts, which can be expressed as a 20 db power gain. How do we get that figure (20 db)? There's a formula

for that, which is $db=10\log(P1/P2)$. So, the definition of db is simply the base logarithm of the ratio of two power values. Don't let that formula scare you.

There's an easier way to understand the decibel. Why do we use logarithms instead of the voltage or power units themselves? The answer is that whenever we encounter large numerical ranges (such as the ratio of power of a transmitter versus the voltage measured at the antenna input of a receiver, it is more convenient to use the logarithm of the numbers rather than the numbers themselves. If you don't want to bother with formulas in order to convert actual values to the logarithm of those values, you can often determine db gain by easier means. If the higher power has ten times the power of the first, that's 10 db gain. If it has 100 times the power, that's 20 db gain. If it has 1000 times the power, that's 30 db gain... and so on. You see, gain is expressed in powers of ten. Ten times 10 is 100. Ten multiplied by itself three times is 1000. It's important to understand the decibel because it is used extensively in amateur radio. Antenna gain, transmitted power, receiver sensitivity and a myriad of other measurements are expressed in terms of decibels. Once you get used to "relative gain or loss" expressed in decibels, you'll come to fully understand why they're used so extensively in amateur radio. For Basic exam purposes, remember that 3db is a doubling in value.

The correct answer therefore is 'D. a mathematical ratio'.

Remember... our next Basic course starts September 13th

~ John VE7TI

All About Capacitor Types

Find out all about the different properties of the various capacitor types: electrolytic; ceramic; tantalum; plastic film. Find out what they are; how they can be used; and the various attributes of each type.

<https://youtu.be/CUB3Apl5J2s>



The Contest Contender

John Brodie VA7XB

SARTG RTTY Contest

Anton VE7SSD and Sheldon VA7XNL decided to dip their feet in the SARTG WW RTTY Contest, sponsored by Scandinavian Amateur Radio Teleprinter Group on the weekend of 20-22 August. This was really the first good contest opportunity after Field Day and the Canada Day contest to use the radio room at SARC's new Operations & Training Centre (OTC).

Stan VA7NF was there to demonstrate to Anton and Sheldon use of his software-defined-radio, the Flex 6700. Just enough contacts (35 in total) were made to get the hang of this impressive radio, test out the newly-installed rotator and to turn the beam. What the participants soon became acutely aware of is the need to have the rotator controller in an accessible location when stations are coming at you from two directions at the same time. Running down the hallway to turn the beam is not really a feasible option in the middle of a contest. Getting an antenna up in the trees for 80m will also be a distinct advantage so operation during the evening hours is possible.

Best DX contact of the day was P3X (Cyprus) but France, Serbia, Finland, New Zealand and Japan were all there.

What's next? Perhaps the All Asian DX Contest (SSB) on 3-4 Sept, the WAE DX Contest (SSB) on 10-11 Sept, or the CQ WW DX Contest (RTTY) on 24-25 Sept. Do we have some takers?

If contesting is not your cup-of-tea, then consider it a training opportunity to hone your skills, practice copying callsigns, and familiarize yourself with different radios and logging software.

~ John VE7XB



"If contesting is not your cup-of-tea, then consider it a training opportunity to hone your skills..."



Proving that making a working antenna has creative possibilities, here are two prime examples.

Right: You can use a waling stick as an antenna:

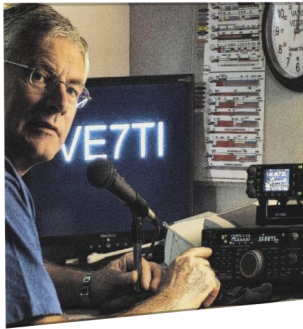
<http://w6nbc.com/images/CANE%20QST.pdf>

Left: Not a joke folks... This fellow claims he can make a usable antenna out of just about anything, and he has several examples. Here he is relaxing under his 2m umbrellantenna. Just the thing for our Vancouver weather!

<http://kf4bwg.com/#file04>



September 2016



QRM

...from the Editor's Shack

*Do you have a photo or bit of club news to share?
An Interesting link?*

*Something to sell or something you are looking for?
eMail it to [SARCcommunicator @ outlook.com](mailto:SARCcommunicator@outlook.com) for inclusion in this column.*



Ralph Wrotniak VA7UB

We received word that Ralph suffered a major heart attack. Nell was with Ralph when he had his attack and she started CPR which the doctor says saved his life. Ralph was in critical condition in the ICU unit at Royal Columbian Hospital for a while but has now been moved closer to home, Langley Hospital, to start his rehabilitation.

Since his heart attack on Aug 11th he has also suffered a stroke and he has a pacemaker in place now. At first he could not talk but now he is able to say a few words as his brain tries to re-wire itself. The family asks for everyone's prayers that Ralph gets stronger and learns to speak more. The family is grateful for all their friends in the Radio community for their support. Hurry back Ralph, there's more contesting ahead!

A BIG Sale!

As a result of a number of donations, we have a room full of used equipment, antennas, accessories and parts at the SAROTC. We'd like to clear it out ASAP, first to our members and any remaining will be headed to the next Ham Flea Market. Please drop by, have a look and put in an offer.

~ John VE7TI



Maple Ridge residents fight to remove amateur radio tower

Residents of a Maple Ridge neighbourhood have been fighting to have an amateur radio tower taken down, but all they have been hearing from the government is radio silence.

<http://www.cbc.ca/news/canada/british-columbia/ham-radio-maple-ridge-1.3668418?cmp=rss>



Page 13—News You Can Lose

The Lighter Side of Amateur Radio

Study Confirms QRM'ers Are Bad People

By K5KVN, on the scene

NEWINGSTEAD, Vt. — Results of a worldwide study have confirmed what many ham radio operators have suspected all along: people who purposefully interfere with other transmissions are psychopaths.

The study, conducted over the course of one week by the National Radio Retransmission Legion (NRRL), was released yesterday. "It became immediately clear what kind of people we were dealing with. One week was all we needed to determine that people who QRM are just terrible, nasty trolls," said Bruno Harlingturn, NRRL Deputy of Scientific Studies.

The research sought to determine exactly why people engage in malicious interference. QRMers were identified by NRRL interns, who used "inexpensive direction finding equipment" to pinpoint the location of the interference. Many were found on 14.313 MHz in the United States. The interns then sent written surveys to those identified as the source of the interference.

When asked why they QRM, respondents said, in part:

- "I'm actually making it more fun for the hams, by making it more challenging to hear the rare DX through my whistling."
- "The longer I press on my J38 key, the more pleasure I receive."
- "I enjoy the audio characteristics of belching, particularly when 20 meters goes long late in the day."
- "The more beautiful the SSB signal is, the more satisfying it is to corrupt."

Researchers say these answers point to narcissism (egotism and self-obsession), psychopathy (the lack of remorse and empathy) and sadism (pleasure in the suffering of others).

"Let's not mince words here. These fools are certifiable nutcases," said Harlingturn. He said the study was so successful, the NRRL plans to replicate the methodology on a future study. "I think we can soon determine why so many hams use phonetics on two meter repeaters," Harlingturn said.

Ham Hijinks will report on that study when it becomes available.

~ hamhijinks.com



"...people who QRM are just terrible, nasty trolls"

We were recently at a meeting where the name and corresponding acronym for the new Surrey Amateur Radio Operation and Training Centre were discussed. We agreed that the name had to reflect Amateur Radio and Training because 'The Clubhouse' evoked the wrong impression of our goal.

After a few moments, one of the participants came forward with 'Surrey Amateur Radio Club Assigned Site for Training and Incident Command'. It sounded pretty good until we looked at the acronym S.A.R.C.A.S.T.I.C

**Reminder!!!
My SARC
membership
renewal is due**

September 2016



SEPAR Report

Garvin Yee VA7YEE



Some definitions for emergency communications (From the BC Government):

http://www2.gov.bc.ca/gov/content/safety/emergency-preparedness-response-recovery/preparedbc/definitions?WT.cg_n=HootSuite



It was a dark and stormy night. All SEPAR members with their flashlights, were monitoring their radios for...

SEPAR has been active for the last year with the following activities:

1. September 2015, EXERCISE: SHAKEOUT BC. The Provincial Government conducted an exercise throughout the Province, to prepare the populace in preparation for an earthquake. SEPAR performed it's responsibility of manning and operating the Surrey EOC, Emergency Operations Centre, receiving check ins from radio operators.
2. October 2016, NEPP - Neighbourhood Emergency Preparedness Program by Ken Douglas. Subject was on how to personally prepare for disasters or large scale emergencies. Including what to pack in your 72 hour Emergency or Home Emergency Kit.
3. February 2016, review of SEPAR commitment, mandate and role in the event of an emergency or disaster.
4. May 2016, Surrey/FD Earthquake Cottage Display. SEPAR with a number of other emergency services, were on site for public viewing, which included the earthquake simulator trailer, which really shook you up.
5. May 2016. SEPAR worked with the RCMP in preparing for Exercise Coastal Response, by establishing communications from the new Surrey Amateur Radio Operations Training Centre site.
6. June 2016, EXERCISE: COASTAL RESPONSE. This earthquake/disaster exercise centered at Port Alberni, was mainly for Vancouver Island. SEPAR with the other EOC's in Metro Vancouver participated in support with the PREOC in Surrey.
7. July 2016, CANADA DAY. SEPAR helped celebrate Canada Day in Cloverdale, alongside other emergency services. We even took eight names of people, who were interested in getting their radio operator's license. Future recruits?
8. July 2016. Annual General Meeting was conducted, with elections of new a new Executive. Alan VA7BIT, President; Ron VA7VTA, Vice President; Drew VA7DRW, Treasurer; Garvin VA7YEE, Secretary; Stan VA7NF, Director; Peter VE7PGX, Director; Robert VE7CZV, Director.
9. August 18, 2016, EXERCISE: TIC TAC TOE. This was an exercise for mobile operators, simulating check ins and deployment, as if one had been called for an disaster or emergency event. A successful exercise, where I, VA7YEE learned a lot as net control.
10. This September to June 2017 is looking to be another busy year of activities for SEPAR. Starting out will be SHAKEOUT BC in September.
11. Peter our Training Director, will be conducting training sessions in our communications support to ESS, Emergency Social Services. Most of these training sessions will be on Saturday mornings and a couple of Thursday nights, over a five month period.

After a hot summer, come and cool off this September, by checking out SEPAR in what we do and/or what you can contribute to the community.

~ Garvin VA7YEE



Adam's Tech Topics

Adam Foley N1RKW

Restoring Old Equipment

Hmmm... I've filled the last two articles with everything you never wanted to know about meters and oscilloscopes, and since none of you are addicted to test equipment like me, I'm certain that most of you are completely sick of it by now.

So what's next? Do I keep forcing more irrelevant information down your throat until you want to puke? No, that doesn't sound pleasant to me either.

How do I indulge my desire to write about things I like and maybe even know a little something about without making every last one of you want to punch your computer monitor, or me, in frustration?

Perhaps something a bit different would be in order for this month's article: I think I'll write about the process I go through whenever some old and interesting piece of equipment falls into my lap. Basically a "how to", if you like, for bringing old electronic gear of any type back to life. Mind you, this is not an expert's "how to", or even a reasonably talented technician's "how to". This is Adam's "how to", or more accurately: Adam's "how I do it, mistakes included". As most of you know, my writing style is very much a "warts and all" affair, with all of my numerous mistakes laid out for all to see. This will be no different. While I don't want to teach you the wrong way to do things, I also don't want anyone to have the impression that the information I am imparting is necessarily the correct way to do things. Rather, it's the way I do things. So if you're okay with that, sit back, relax, and enjoy the following article if possible.

Oh, and if you're brave enough and foolish enough to try the things I outline here, you do so at your own risk. Sorry, but if you

blow yourself up you only have yourself to blame.

Step One: Get Your Hands On The Thing!

For the purposes of this article, I'm going to use my McMurdo Silver Model 900 VTVM (Vacuum Tube Volt Meter) pictured at right, that I acquired recently and have been putting a lot of effort into restoring it back to full working order. I promise, for the sake of your monitor, that I won't go into disgusting detail about the operation of the VTVM. However, discussion of some of its internal components will be necessary for the purposes of this article, so please don't hit me.

Back to the subject of the article: Getting your hands on old junk, nifty treasures, awesome tube radios, cool transistor transceivers, nice blinky trinkets, and super-sensitive test gear is really not too hard to do if you have the time and the ten bucks. NEARfest happens twice a year, in late Spring and early Fall. It is an absolute wonderland of electronics of all types and ages. You're certain to find something that calls to you there, but if not there are any number of other ways to get your hands on interesting electronica. Ask around. There is almost always someone selling something interesting in your local ham radio club, and sometimes you can even get things for free. That's actually how I landed the McMurdo Silver 900. I have said many times to many people that I am always looking for electronics, radios, and test gear that would otherwise be heading to the local landfill. A very kind local ham offered to



McMurdo Silver Model 900 "VOMAX" VTVM aka: My latest all-consuming project

"...if you're brave enough and foolish enough to try the things I outline here, you do so at your own risk"

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give me the meter, and of course I agreed after giving it some thought for about 0.0042 seconds. I'd be even more of a fool than I already am if I refused a deal like that!

In addition to NEARfest, local sales, and charity cases (referring to myself), there are other methods for obtaining goodies. Ebay is a very good way of finding almost anything imaginable, as long as you don't mind taking a chance on the condition, functionality, shipping costs, and even the identity of the item you're bidding on. There is also Craigslist, QRZ.com, Amazon.com, and even a smattering of local yard sales, or "Yerd Seals" as I've seen it spelled around here.



Yuck! Time to do some cleaning...

Step Two: Clean It!

Step two can be omitted if the item is new enough or clean enough, but pretty much any used item should have some level of clean-up done to it, if for no other reason than to clean the

chunks of cheese out of the ridges that radio manufacturers seem to always insist on putting into their microphones. Remember, that thing was next to some other guy's/gal's mouth for a long time, collecting who knows what as it came spattering out of their oral cavity.

Microphones aren't the only things that collect gunk, so giving your new treasure a good cleaning won't hurt anything except your paper towel budget.

The tools needed to clean most electronics are soap, water, and paper towels. Anything harsher will damage almost any printing on the face of the device, which can make for a bad day if you want to keep the thing pristine. There are some times when it's necessary to break out the bottle of 90% isopropyl alcohol, but use it sparingly and carefully.

It does a fine job removing smoker's tar, but it also does a fine job removing screen printing, part labels, paint on knobs, and many other things you don't actually want to remove. As a last resort, acetone (aka: nail polish remover) can be used for some really stubborn stains, but be careful as it will happily craze that nice, irreplaceable polystyrene meter bezel and melt most other plastics if given half a chance. If you really need to do some cleaning in areas you feel will be sensitive to harsh chemicals, consider trying something milder such as Goo Gone, though normal caution should be exercised with it as well. As with any chemical, try a test spot somewhere inconspicuous before going all out with it.

If something is particularly dirty, don't be afraid to get medieval on it. I had one piece of equipment that had been stored in a shed for a long period of time, and mice got to it. To it, on it, around it, in it, and through it. They had even gone so far as to make a cute little home in there, complete with plenty of food storage, a big screen TV, and a 2 car garage. In this case, I removed the device from its case, and I ran both it and the case under hot water in the bath tub, and then left it on a towel to dry for a full week before getting back to it. I don't recommend doing this procedure except as a last resort when the thing is really, really gross with mouse turds all over it. I hate mice.

Step Three: Inspect That Puppy!

Every device is unique, but there are a few things that go wrong so often that mentioning them here seemed like a good idea, so here goes:

One of the biggest issues with old electronics is the deterioration of rubber. If that rubber is a grommet cushioning a knob stem as it goes through the front cover, it's no big deal and can be replaced or ignored at your leisure. However, if that rubber happens to be all that is keeping the wires powering the device from touching each other and going crackle-fizzle-foom-boom, you might have a problem, or at the very least a power cord that needs replacing. In the case of

the McMurdo Silver 900, the power cord was bad, very bad indeed. Had I plugged it in without having done an inspection, I definitely would have had a crackle-fizzle-foom-boom on my hands. Since my wife and son might get a little angry at me for burning down our home, I elected to replace the power cord with a good one with a built-in fuse that I had on hand in my junk collection. Further inspection revealed that there was more wiring in the meter that needed replacing for the same reason, so I replaced that also and the VTVM came to life without any hint of crackle-fizzle-foom-boom.

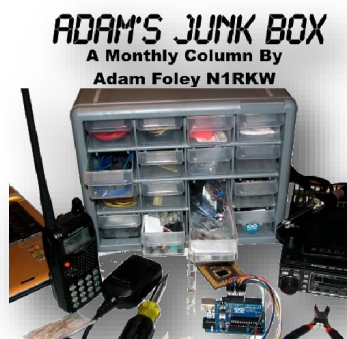
Another one of the other biggest issues with old electronics (and sadly new electronics as well) is capacitor death. How hard could it be to produce a couple of pieces of metal foil with an insulator between them that lasts a long time? Apparently it's a lot harder than it sounds, because almost every piece of electronic gear out there eventually seems to succumb to this plague of dead capacitors. Very often the device in question will be working fine right up to the moment when a fzzzt is heard and a whiff of magic blue smoke escapes from the back of the device. Yet again a 10 cent capacitor has

killed a \$100+ piece of electronics, and left a foul smell in its wake. As a matter of course, any and all electrolytic capacitors should be replaced when trying to revive an old piece of electronic gear (certain other types of capacitors, such as ceramic and mica, can be left in place if they test okay). Even if those capacitors test okay on your multimeter, they could be leaky. A leaky capacitor is one that allows some measure of direct current (DC) to flow through it at a given voltage. This is a very bad thing as capacitors are used, among other things, specifically to block DC in the first place. Allowing current to flow where it doesn't belong means heat, more heat, smoke, extra heat, drops in power supply voltage, fire, and too much heat. Most boat-anchor radios and other tube gear have circuits that operate at many hundreds of volts. Your multimeter only tests the capacitors at 1 or 2 volts, so one that is leaky will test okay even if it's not. They need to be tested at high voltage, which requires a special tool and special amounts of caution. It's better just to replace the capacitors in the first place and then you don't have to worry about it.

Another issue to look for is aging resistors. Look for long white beards hanging down from the components in your device if you're worried about the resistors being too old. When you don't find any, you'll know that I was pulling your leg about the beards. I'm not, however, pulling your leg about resistors aging, and there will be no visible signs of it. When they get old or have been subjected to a lot of heat, they tend to increase in value, and I'm not talking about their worth. You might find that a 100 Ohm resistor now measures out to be 128 Ohms instead, way outside of their typical 5% tolerance. This tolerance specifies that a 100 Ohm resistor should measure between 95 and 105 Ohms to be within spec. Our 128 Ohm reading 100 Ohm resistor would be even further out of spec if it were a 1% tolerance resistor such as those often found inside old analog



These capacitors, like all electrolytic capacitors, should be replaced.



Guest Columnist Adam Foley N1RKW is a member of the Central New Hampshire Amateur Radio Club and contributes a monthly column "Adam's Junk Box" to their newsletter, also called *The Communicator*.

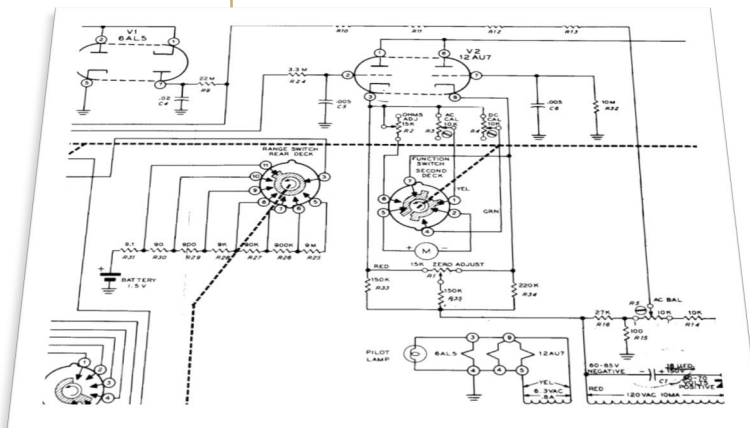
Adam also has a [YouTube Channel](#)

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(Continued from page 17)

meters. Any resistors that are out of spec should be replaced. The good news is that resistors are cheap, usually around 10 cents apiece for common types from suppliers like Digikey and Mouser. Specialized types such as larger power resistors or wire-wound ones may cost a bit more, but are still unlikely to break the bank.

There are plenty of other potential problems that can be found with a simple inspection and a multimeter, which leads us to...



Partial schematic of a Heathkit meter

Step Four: You Need Information!

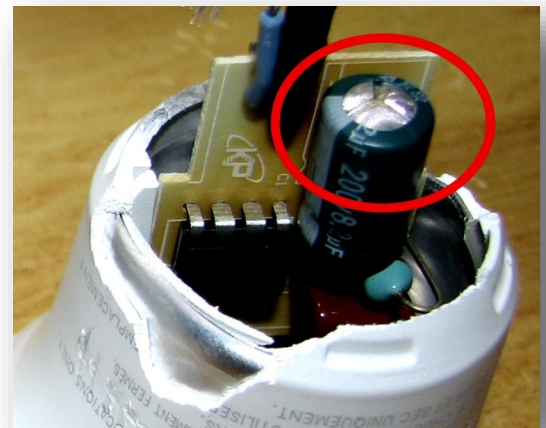
Many electronic devices have information available online, if you know what to look for and where to look. What to look for: Schematic diagrams, parts lists, exploded-view parts breakdowns, operators manuals, service manuals, technical bulletins, how-to guides, forum conversations, tear-down videos, repair videos, manufacturer's recommendations, etc. Basically, anything you can get your greedy little paws on. The Boat Anchor Manual Archive (BAMA) is a fantastic resource, but only one of many that are out there. Google everything, and then Google it some more.

On anything that is old enough to be past its copyright date, resist the urge to pay for a digital copy of any documentation. If

the "pay me for it" guys have a copy of it, someone else usually does too. Keep your eyes open, and ask around. You never know how or where you might come across the information you need. For example, I thought I was going to have to drop \$15 for a copy of the Model 900's operator's manual, until a fellow ham who has mad Google skills found a free copy and emailed it to me... Within 10 minutes of me mentioning to him that I needed it. You just never know...

Step Five: Thou Shalt Check Voltages!

A great many dead electronic items are dead for the same reason: a dead power supply circuit. A great many power supply circuits are dead for the same reason: suicidal capacitors. If your meter is telling you that a power rail that's marked 12V is only putting out 4.3V (or more often 0V), there's a good chance that there's a dead capacitor in there somewhere. Look for one or more with bulged and split tops, which will look a bit like this:



This is what a suicidal capacitor looks like.

While capacitors inside a power supply circuit will often reveal themselves to be deader than a doornail with a simple eyeball test, other problems may not be as easy to find. A failing but not completely dead voltage regulator might be putting out 7.8V when it's supposed to be putting out 9.0V instead. Most of the circuit will

probably still function in this case, but it will not function properly. You can save yourself a heck of a lot of head scratching, fumbling, component testing, and cussing simply by looking at the voltage and saying to yourself, "Huh. That's not quite right," and following up from there. The expected voltages are often published in the device's schematic diagram, or even sometimes printed right on the circuit board itself. Then again, sometimes you have to use your own intelligence to figure it out. This is, of course, not as easy for me as it would be for you.

Poke around, test everything, write down the voltages you see and compare them to the voltages the manufacturer thinks you should be seeing. Where you go from there is specific to the individual device you're working on, but now that you've checked the voltages, you should have a decent idea which way to go.

Step Nothing: What You Need for Tools!

A basic electronics bench is not hard to stock, nor should it cost you a small fortune. Almost every tool I have was either found, given to me, or resuscitated junk. Here's what I consider to be the bare essentials if you want to get started working on electronics:

A soldering iron. Doesn't even have to be a good one, to begin with.

A digital multimeter. Should be a good one, but anything is better than nothing. (Don't use a crappy meter to measure high voltage! See my article on meters.)

A well-lit bench. I use a sturdy piece of plywood and cheap LED strips.

A decent selection of hand tools. Anything that works well for you will work well for you.

That's it. That's really all you need to get started, though you will probably want to accumulate some more tools as time goes on. If you can manage to buy low, repair cheaply, and sell high, you may be able to fund the expansion of your work space from with the stuff you're fixing.

There are a few other things you may consider adding to your tool collection, and these things will certainly help you when working on electronics but are not really needed to get started:

An Oscilloscope: See Voltages as pictures. See my article about oscilloscopes.

A Variable Power Supply: Make power at voltages of your choice.

A Signal Generator: Make signals at frequencies of your choice.

A Frequency Counter: See what frequency your radio is transmitting at.

A Dummy Load: Use it to keep a lid on your test transmissions.

A Bench Multimeter: A more accurate big brother to the hand-held multimeter.

An Isolation Transformer: Isolates your device from mains power, protecting you and your stuff.

A Soldering Station: Big brother to the cheap soldering pencil.

A De-Soldering Tool: Helps remove components and remove mistakes.

Spare Parts. Lots and lots of spare parts. Organized in small drawers if you actually want to use them.

A Weather Station: Good for keeping up with your friends on the local nets.

A Non-Contact Thermometer: Good for finding that hot component before it catches fire.

A Variac: For controlling the mains power going to your device.

An LCR Meter: For checking capacitors, inductors, and resistors. See my article about meters.

Reference Books and Documents: Can be on paper or on your computer.

An Analog Meter: Helpful for viewing voltage changes as they happen.

A Digital Camera: Documents your progress and helps you to reverse your mistakes.

A basic electronics bench is not hard to stock, nor should it cost you a small fortune.

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Adam Foley N1RKW has been around ham radio most of his life, but didn't smarten up and get his license until 2008. Since then he has gone on to great heights (the 12' high roof of his old house, and the 3rd floor apartment he's in now), and recently decided to take up writing a monthly column about ham radio and electronics, two of the subjects he knows a little bit about (but not much). He lives in Laconia, NH with his incredibly tolerant wife and equally tolerant son and can be reached at I can be reached by email via N1RKW at hotmail dot com.

Anything Else You Can Think Of:

Anything else you can think of.

Again, these are not all necessary, so don't let this list scare you.

This is not where this ends. The process of bringing an old electronic device back to life can be a long one, requiring spending a lot of time checking, re-checking, and checking again, followed by a bit of soldering and then some more checking, lather, rinse, repeat. Don't expect to be able to do this in a hurry, and never expect something to function properly without some amount of work, even though that does happen once in a great while. Do expect to put a lot of effort and even some Shekels into anything you really want to resuscitate, especially if you want to do it right (which I highly recommend). That being said, you can still end up with a very nice piece of equipment when you're done, with a lot less monetary investment and a lot more personal ownership than you would have if you had purchased an equivalent device in new or refurbished condition.

I hope that this little primer on how I go about attacking the electronic goodies I obtain is helpful to you. Remember, this isn't written from an expert's viewpoint, it's written from a dummy with no real education's viewpoint. Most of what I've learned I've learned by making mistakes, something I continue to do regularly.

Don't be afraid to make mistakes... Unless they're the kind that causes things to catch fire.

As usual, I can be reached by my email address which is simply hot mail and my call sign, I'm sure you can figure out which order they go in. I can also be found on the Gunstock 146.985 repeater most afternoons and evenings. Feel free to contact me with any ideas, questions, suggestions, and complaints you may have.

One last reminder: I'm running out of things to write about, I need your suggestions and questions!

~ Adam Foley N1RKW
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The Radio Amateur (Canada) Swap Site

Hello, my name Aaren (VA7AEJ). I found your contact information by visiting hundreds of websites for Amateur Radio clubs, groups, etc. across Canada.

I've just launched RASwap.ca - Radio Amateur Swap Canada

It is a coast to coast Canadian classified ad site just for Ham Radio gear. Think of it like Craigslist or Kijiji without the used cars and old refrigerators.

A one stop shop to list your For Sale or Wanted items. Accounts are FREE and the classified ad's are FREE to post. Access is limited to Canadian Amateurs (via their callsign at registration).

Shop without having to ship across international borders (no customs and duty fees) and all items are listed in Canadian dollars.

If you run a local Buy & Sell / Swap & Shop this is an alternate way for your members to reach a larger audience. If you are a webmaster who spends most of their time posting peoples ads manually, this might be a way for you to offload that work?

Over the coming weeks I'll be adding more tweaks and features.

Your feedback is greatly appreciated. and any help you can give me promoting my one-man operation is truly great.

Please share with EVERYONE in your circle of ham friends.



Ham Tidbits

More on Distracted Driving Legislation

The ad on Craigslist reads:

"British Columbia's Revised Distracted Driver Law Means Big Fines for Non Compliance.

- As a ham or amateur radio operator, you are NOT exempt! If your hand microphone has more than one function -most do, it is non compliant!
- Aggressive legislation specifies the half-duplex device (your two-way radio) has only one function key (Push-to-talk)

Amateur microphones have multiple functions; UP/Down, Numeric and Function keys.

- You cannot simply tape or cover the additional keys to make the microphone compliant.
- Unless you are specifically participating in a true emergency (not a QSO with your friends) you are not exempt!
- Documentation provided to police officers from the province shows a keypad microphone directing them to consider it non-compliant.

Compliance is simple and inexpensive:

If you have an ICOM radio with 8 pin RJ-45 jack including the IC-2800, 2820, 2710, 2720, 2730, 2100, 2200, 2300, 208H, V8000, ID-880 and others, we have a special compliant OEM microphone which was made to work with your rig. \$49.95

If you have an Kenwood radio with 8 pin RJ-45 jack including the TM-251, 261, 271, 281, V7A, V71A, D700, D710A/G, G707A and others we have a compliant OEM microphone which was made to work with your rig. \$49.95

In doubt? Radio not listed above? Call us and we'll help you out. show contact info

Don't risk a hefty fine and penalty points!!!"

http://www.rhecomm.com/RHE_Radio_Communications/Home.html

British Columbia's Revised Distracted Driver Law Means Big Fines for Non Compliance.

You are **NOT** exempt!

If your hand microphone has more than one function it is non compliant!

- Legislation specifies the half-duplex device (your two-way radio) has *only* one function key (Push-to-talk)
- Amateur microphones have multiple functions; UP/Down, Numeric and Function keys.
- You cannot simply tape or cover the additional keys to make the microphone compliant.
- Unless you are specifically participating in a **true emergency** (not a QSO with your friends) you are not exempt!
- Documentation provided to police officers shows a keypad microphone directing them to consider it non-compliant.

Compliance is simple and inexpensive:

THE POLICE ARE NOT RADIO TECHS

If you have an ICOM radio with 8 pin RJ-45 jack including:
IC-2800, 2820, 2710, 2720, 2730, 2100, 2200, 2300, 208H, V8000, ID-880 and others:



\$54.95

If you have an Kenwood radio with 8 pin RJ-45 jack including: TM-251, 261, 271, 281, V7A, V71A, D700, D710A/G, G707A and others:



\$39.95

Click on the picture for the Craigslist ad

See Page 24 for a listing of Canadian Distracted Driving laws

September 2016



Canada 150 Special Event Callsigns

At the Dayton Hamvention, Radio Amateurs of Canada announced that it has secured permission for all Canadian Radio Amateurs to use special call sign prefixes to celebrate the 150th anniversary of Canada's Confederation.

National, regional and local events will take place throughout 2017 to celebrate

the anniversary and Canadian Amateurs will let their counterparts around the world know of our celebration by using the following special prefixes:

Amateurs and clubs whose regular call signs start with VA will be able to use the CF prefix instead of VA (for example, VA3RAC will be authorized to use the CF3RAC call sign).

Amateurs and clubs whose regular call signs start with VE will be able to use the CG prefix instead of VE (e.g., VE4RAC will be authorized to use CG4RAC).

Amateurs and clubs whose regular call signs start with VO will be able to use the CH prefix instead of VO (e.g., VO1RAC will be authorized to use CH1RAC).

Amateurs and clubs whose regular call signs start with VY will be able to use the CI prefix instead of VY (e.g., VY2RAC will be authorized to use CI2RAC).

These special prefixes are optional and Amateurs can choose if and when to use the special prefix vs their normal prefix at any time during the year. Stay tuned to the RAC website (<http://wp.rac.ca>) for additional information

For more information on Canada150 visit <http://canada.pch.gc.ca/eng/1342792785740>

Distracted Driving Regulations Update

Rules on distracted driving may be set and updated by each province or territory. The following are links to rules that we know of in these jurisdictions:

Alberta:

http://www.qp.alberta.ca/1266.cfm?page=T06.cfm&leg_type=Acts&isbncln=9780779791880&display=html
http://www.qp.alberta.ca/1266.cfm?page=2011_113.cfm&leg_type=Regs&isbncln=978077979758609&display=html

[type=Regs&isbncln=978077979758609&display=html](http://www.qp.alberta.ca/1266.cfm?page=2011_113.cfm&leg_type=Regs&isbncln=978077979758609&display=html)

British Columbia:

http://www.bclaws.ca/Recon/document/ID/freeside/96318_06
<http://www2.gov.bc.ca/assets/gov/driving-and-transportation/driving/publications/electronic-deviceswhile-driving.pdf>

Manitoba:

[http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php#215.1\(5\)](http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php#215.1(5))

Newfoundland and Labrador:

http://www.assembly.nl.ca/legislation/sr/statutes/h03.htm#176_1

New Brunswick:

<http://laws.gnb.ca/en/showfulldoc/cs/M-17//20160714>

Northwest Territories:

<https://www.justice.gov.nt.ca/en/files/legislation/motor-vehicles/motor-vehicles.a.pdf>
<https://www.justice.gov.nt.ca/en/files/legislation/motor-vehicles/motor-vehicles.r17.pdf>

Nova Scotia:

<http://nslegislature.ca/legc/statutes/motor%20vehicle.pdf>

Nunavut:

No links at present

Ontario:

<https://www.ontario.ca/laws/statute/90h08>
<https://www.ontario.ca/laws/regulation/090366>

Prince Edward Island:

<http://www.gov.pe.ca/law/statutes/pdf/h-05.pdf>

Quebec:

<http://legisquebec.gouv.qc.ca/en/ShowDoc/cs/C-24.2>
<https://saaq.gouv.qc.ca/en/road-safety/behaviours/distractions/cell-phones-texting/what-the-lawsays/>

Saskatchewan:

<http://www.qp.gov.sk.ca/documents/english/Statutes/Statutes/T18-1.pdf>

Yukon:

http://www.gov.yk.ca/legislation/acts/move_c.pdf

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Sun Mon Tue Wed Thu Fri Sat

<div> <p>For details on all SARC events, go to ve7sar.net</p> <p>For details on all SEPARS events, go to separ.shutterfly.com/calendar</p> </div>						
				1	2	3 0900 Klub Koffee Klatch: Kalmar Family Restaurant, King George Blvd & 81 st Ave. CONTEST: All-Asian DX (SSB)
4 CONTEST: All-Asian DX (SSB)	5 Labour Day	6 1915 SEPAR Net 2000 SARC Net	7	8 1930 SEPAR Simplex Check-in	9	10 0900 Klub Koffee Klatch: Kalmar Family Restaurant, King George Blvd & 81 st Ave. CONTEST: WAE DX (SSB)
11 CONTEST: WAE DX (SSB)	12	13 1915 SEPAR Net 2000 SARC Net	14 SARC General Meeting	15 1930 SEPAR Simplex Check-in	16	17 0900 Klub Koffee Klatch: Kalmar Family Restaurant, King George Blvd & 81 st Ave. CONTEST: NJ & NH QSO Parties (CW, SSB) All-Africa DX (All mode)
18 CONTEST: NJ & NH QSO Parties (CW, SSB) All-Africa DX (All mode)	19	20 1915 SEPAR Net 2000 SARC Net	21	22 1930 SEPAR Simplex Check-in	23	24 0800 Klub Koffee Klatch: Kalmar Family Restaurant, King George Blvd & 81 st Ave. CONTEST: CQ WW DX (RTTY)
25 CONTEST: CQ WW DX (RTTY)	26	27 1915 SEPAR Net 2000 SARC Net	28 SARC Exec Meeting	29 1930 SEPAR Simplex Check-in	30	

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CLUB EXECUTIVE 2015-2016

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VICE PRESIDENT

Anton James VE7SSD

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Sheldon Ward VA7XNL

Mike Plant VE7AT



QRT

Stan Williams VA7NF

Welcome to the second rising of the Roman God Janus, the god presiding over all beginnings and transitions - The first in "Janus-ary" and now the second at the end of our summer and transition to normality.

Looking back: Our AGM venue was moved from the PREOC to the Surrey Fire Training Centre, thank-you Lorraine, where we completed our legal requirements for the 2015-2016 season. We also elected half our 2-year directors; welcome to a new and energetic board.

Also significant was the start of our Operations and Training Centre (aka OTC/clubhouse) and OTC fund; the decision to "make it work" as a field day site, a location for summer socials, and as a joint facility for both SARC and our sister group Surrey Emergency Program Amateur Radio Society (SEPARS).

Transitions: We have lived through what Confucius said to his enemies, "May you live in changing times!", and come out the stronger for it.

We have had our first three directors' meetings at the OTC around a donated board room table, thank-you callout to our editor John Schouten. Thank you also to our previous board and a welcome to our current board. Hopefully soon we will have internet access so our travelling members may Skype in.

Field day at the OTC (sounds like a book title) was simpler in many ways utilizing this inside venue but involved significant co-operation and effort between our OTC committee and City of Surrey planning, IT, and sub-trades to pull it off.

We have a lottery grant application submitted and look forward to a favorable outcome. Again a thank-you to John Brodie for his significant efforts and to the board of directors for reviews and direction.

It would be interesting to hear conversations between differing ideologies; that of Confucius and Janus. We have lived that this summer.

Looking forward: In a few days will be the first SARC General Meeting; back at the PREOC in Green Timbers, Wednesday September 14 at 7PM. There will be no guest speaker, instead a business portion, a social session, and closing wrap-up and adjournment.

There are two groups having weekly social get-togethers; One the Surrey Central, well-publicized Saturday 8:30AM (early start to 9PM advertised) group at the Kalmar restaurant NE of 80th and King George Highway; the other lesser known in South Surrey, with extremely varied conversations, held Thursday mornings (7:45AM - advertised as 8AM) at Tim Hortons NE corner of 24th Ave and 160th St.. Strange or significant observation: Both groups meet close to the exit doors and welcome visitors.

A final thanks to the general members and directors for electing me president. Here's hoping we have an enjoyable and productive new year; with Janus's blessing/oversight?

~ Stan VA7NF

On the Web

ve7sar.net

Between newsletters, watch your e-mail for announcements of events, monthly meetings and training opportunities. These announcements can also be found on our web page, or via:

Twitter

[@ve7sar](https://twitter.com/ve7sar)

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[SurreyAmateurRadio](https://www.facebook.com/SurreyAmateurRadio)

Our YouTube Channel

[SurreyARC](https://www.youtube.com/SurreyARC)

SARC Photo Albums

[Web Albums](#)

or

tinyurl.com/SARCphoto



It's September

Our new meeting season starts on Wednesday, September 14 at 7pm with our General Meeting at the SW PREOC. There will be a further presentation on the new Operations and Training Centre and a review of what's ahead for the club.

If you have not yet paid your dues, you are now overdue, so please keep our accounts healthy and pay Scott at the meeting, send a cheque, or visit PayPal on-line.

Down The Log...

SARC Monthly Meetings

2nd Wed. (Sept-Jun)
1900 hr at the PREOC
Emergency Mgmt BC
14275 96th Avenue,
Surrey, BC

Weekly Club Breakfast

Saturday at 0900 hr
Kalmar Family Restaurant
8076 King George Blvd.
Surrey

SARC Net

Tuesday at 2000 hr local
on 147.360 MHz (+)
Tone=110.9

SEPARS Net

Tuesday at 1915 hr local
on 147.360 MHz (+)
Tone=110.9

VE7RSC Repeaters

2m: 147.360MHz+
Tone= 110.9Hz
IRLP node 1736
Echolink node 496228

1.2m: 223.960 Mhz -1.6
Tone=110.9

70cm: 443.775MHz+
Tone= 110.9Hz
IRLP node 1737

SARC hosts an Amateur Radio net each Tuesday evening at 8 PM. Please tune in to the VE7RSC repeater at 147.360 MHz (+600 KHz) Tone=110.9, also accessible on IRLP node 1736 and Echolink node 496228.

On UHF we operate a repeater on 443.775MHz (+5Mhz) Tone=110.9 or IRLP Node 1737.

	SARC Net 20:00 Hrs
1 st Tuesday Standby	Drew VA7DRW Brett VE7GM
2 nd Tuesday Standby	Jinty VA7JMR Sheldon VA7XNL
3 rd Tuesday Standby	Dixie VA7DIX Ralph VA7UB
4 th Tuesday Standby	Kapila VE7KGK John VA7XB
5 th Tuesday Standby	Robert VA7FMR Vacant
Want a turn at Net Control? Contact the SARC Net Manager	



We Have A SARC Patch!

These are suitable for sewing on a jacket, cap or your jammies, so you can proudly display your support for the club.

The price is \$4 each or three for \$10 and they can be picked up at a meeting or the weekly Koffee

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